Roll No……..….. **Total No. of Printed Pages: 1**
Total No. of Questions: [09]

B. Tech. CSE (Semester – 7th)
TRAFFIC MANAGEMENT
Subject Code: BCIE01004
Paper ID: [18OE111132]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:

a. What do you understand by level of service concept while deciding the design capacity of a road?
b. What are the factors on which PCU value depend?
c. Indicate the maximum dimensions and weight of vehicles allowed in India as specified by IRC.
d. How would you describe the capacity of cycle track?
e. What are the various facilities provide to pedestrian in traffic?
f. What are the various types of traffic markings commonly used?
g. What do you understand by grade separated intersections?
h. What do you understand by road safety audit?
i. What are the benefits of ITS?
j. What are the various needs and services for ITS user?

Section – B **(5 marks each)**

Q2. What is significance of road user characteristics in traffic engineering? Discuss briefly the various factors which affect the road user characteristics and their effects in traffic performance.

Q3. Explain the origin and destination study. What are the various uses of O&D studies?

Q4. With neat sketches show few typical patterns of un-channelized and channelized intersections. What are the advantages and limitations of un-channelized and channelized intersections?

Q5. What changes to the ITS directive are proposed and why?

Q6. Explain the Advanced Vehicle safety systems, Information Management in ITS.

Section – C **(10 marks each)**

Q7. What are the various types of parking facilities designed for the traffic needs? Compare the angle parking with parallel parking.

Q8. Explain how the speed and delay studies are carried out. What are the various uses of speed and delay studies?

Q9. With neat sketches show some of the important types of regulatory signs and mention the function of each